

**TEST PLAN**

**For the**

**E-Commerce Apparels Shopping Website**

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<b>Prepared Dated: 04/24/2022</b>	<b>Plan Version: 1.0</b>

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# **1. INTRODUCTION**

## **1.1 Purpose**

This test plan describes the testing approach and overall framework that will drive the testing of the Online Apparels Shopping Website version 1.0. The document introduces:

- **Test Strategy:** rules the test will be based on, including the givens of the project like start/end dates, objectives, assumptions. Descriptions of the process to set up a valid test cases like entry/exit criteria, creation of the test cases, specific tasks to perform, data strategy.
- **Execution Strategy:** describes how the test will be performed and process to identify and report the bug, and to fix and implement fixes.
- **Test Management:** process to handle logistics of the test and all the events that come up during test execution.

## **1.2 Project Overview**

This is the E-commerce website which is necessary for simplifying the buying and selling process of apparels. Customers should be able to see all the information that is needed while doing shopping online. Customers should be able to search the desired items and can place the order by making online payment of the items. All the functionalities need to be set up easily so that customers do not have to face hard time while using the website.

## **1.3 Audience**

- Project team members are responsible for performing the tasks specified in this document and provide input and recommendations on this document.
- QA Lead or Scrum Master are responsible for planning the testing activities in the overall project schedule, reviews the document, track the performance of test according to the task herein specified, approve the document and is accountable for the results.
- The stakeholder's representatives and some external user that is identified by the project manager may take part in the UAT test to ensure the business is aligned with the result of the test.
- Technical Team makes sure that they will set up the smooth environment for testing and follow the procedure related to the fixes of defects.
- Business analysts will provide their input on functional changes.
- Visitors or Customers should be able to search the products, share the product on social media, able to buy the product doing online payment.

## 2. TEST STRATEGY

### 2.1 Test Objectives

The objective of the test is to verify that the functionalities of E-commerce Apparels website work according to the specifications.

The test will execute and verify the test scripts, identify, fix and retest all high and medium severity defects per the entrance criteria, prioritize lower severity defects for future fixing.

The final product of the test will be a production ready software or website and a set of stable test scripts that can be reused for Functional and UAT test execution.

### 2.2 Test Assumptions

General Assumptions

- Production like data should be available in the system prior to start of Functional Testing.
- Exploratory testing would be carried out once the build is ready for testing.
- Admin will manage the product catalog with product code i.e., SKU.
- Products with custom size and colors are not going to be sold on website.
- Price of the products will be in USD and only accepts the orders from US country.
- The test team will be provided with access to Test environment via virtual private network.
- The test team will have all the necessary input that is required during test design and execution will be supported by Scrum master/ QA lead and Developer.
- Scrum master or QA lead will review and sign off all the test cases prepared by test team prior to start of test execution.
- Project team has the knowledge and experience necessary, or has received adequate training in the system, the project and the testing process.
- During **Functional testing**, the testing team will use preloaded data which is available on the system at the time of execution.
- **UAT** test execution will be performed by end users.

### 2.3 Test Principles

- Testing will be focused on meeting the business objectives, cost efficiency, and quality.
- Testing process will be well defined, yet flexible, with the ability to change as needed.

- Testing environment and data will emulate a production environment as much as possible.
- Testing will be divided into distinct phase, each with clearly defined objectives and goals.
- Testing should be done in effective and efficiency way and try to find as more as bug before it will go for production.

## **2.4 Data Approach**

In Functional testing, E-commerce Apparels website will contain pre-loaded test data which a tester used for testing activities.

## **2.5 Scope and Levels of Testing**

### **2.5.1 Exploratory Testing**

The purpose of this test is to make sure critical defects are removed before the next levels of testing can start. This testing is carried out in the application without any test scripts and documentation and done at the beginning of each cycle.

### **2.5.2 Functional Testing**

The purpose of this test is to check the functionalities of the application. It is carried out by feeding the input and validates the output from the application. This test is performed according to functional script and start after exploratory test is done.

## **TEST ACCEPTANCE CRITERIA**

- Approved Functional Specification document is needed prior to start of Test design phase.
- Test cases approved and signed off prior to the start of Test execution.
- Test environment with application installed, configured and ready to use state.

## **TEST DEIVERABLES**

<b>S.NO</b>	<b>Deliverable Name</b>	<b>Author</b>	<b>Reviewer</b>
1.	Test Plan	Test Lead	QA Lead/ Project Manager
2.	Functional Test Cases	Test Team	QA Lead / Business Analyst
3.	Daily/Weekly status report	Test Team/ Scrum Master	QA Lead
4.	Test Closure report	QA Lead	Project Manager

## **MILESTONE LIST**

The milestone list is not fixed and may change due to various reasons like

- Any issues in the System environment.
- Any changes in requirement or additional to the requirement.

### **2.5.3 User Acceptance Test (UAT)**

The purpose of this test focuses on validating the business logic and give the opportunities for the end users to complete one final review of the application prior to deployment. This type of test is very important because some time the end users do validation that is not in the scripts. This test is performed at the end before the application goes for production.

## **2.6 Test Effort Estimate**

This is a kind of activities that is performed by the QA team and estimates how many hours each activity is going to take.

## **3. EXECUTION STRATEGY**

### **3.1 Entry and Exit Criteria**

The entry criteria are a desirable condition in order to start a test execution and the exit criteria are a desirable condition that need to be met in order proceed with implementation and they both are flexible benchmarks.

### **3.2 Test Cycles**

In **functional testing** there will be two cycles and each cycle will execute all the scripts. Objectives of first cycle is to identify any blocking, critical defects and second cycles is to identify high and medium defects.

UAT test will consist of one cycle

### **3.3 Validation and Defect Management**

The tester has a responsibility to execute all the test cases in each of the cycle. If any defect is found, they need to communicate that defect to the developer using bug tracking tools like Jira. Tester needs to open a defect and link them to the corresponding script, assign an initial severity, priority and status, retest and close the defect. It is a responsibility of the developer to fix that defect and assign back to the tester for retest.

### **3.4 Test Metrics**

It measures the progress and level of success of the test and shared with the QA lead or Project Manager for approval. It is done weekly basics or daily basics.

## **4. TEST MANAGEMENT PROCESS**

### **4.1 Test Management Tool**

TestRail is a tool that is used for writing a Test Management. All testing artifacts such as Test cases, test results are updated in the TestRail Management Tool. Testing team will be provided with the resource that enable them to read, write, add and modify the test cases and is written directly in test rail where every test cases is assigned with a unique case number. Each Tester will directly access their respective assigned test cases and update the status of each executed step in TestRail.

### **4.2 Test Design Process**

- The tester will understand each requirement and prepare test cases according to that requirement.
- Each of the testcases will be mapped to Use cases to Requirements as part of the Traceability.
- Each of the test cases will be reviewed by QA lead or Business Analyst.
- If Any changes need to be done it will be done directly in TestRail.

### **4.3 Test Execution Process**

- Once everything is ready and test cases are approved then tester will start testing by doing exploratory testing to ensure that the application is stable for testing.
- Each Tester is assigned Test cases directly in TestRail.
- If any issue or stopper arise, then it will escalate to the development team.
- Each tester performs step by step execution and updates the execution status.
- Daily Test execution status as well as Defect status will be reported to the QA lead.

- Tester will execute the test cases until every test case is executed with either pass/fail category.

## 5. ROLE EXPECTATIONS

The following list defines the information of team members related to these roles.

Role	Name	Title	Signature	Date
Project Sponsor				
Business Owner				
Project Manager				
System Architect				
Development Lead				
User Experience Lead				
QA Lead				
Content Lead				

## 6. TEST ENVIRONMENT

A window or mac environment with different available browser with current version.

## 7. APPROVALS

Names and titles of all persons who approve this plan.

<b>Name:</b>	
<b>Role:</b>	
<b>Date:</b>	
<b>Signature:</b>	

<b>Name:</b>	
<b>Role:</b>	
<b>Date:</b>	
<b>Signature:</b>	



